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on April 26, 2007

PATENT  
Attorney Docket No.: 020093-003910US

TOWNSEND and TOWNSEND and CREW LLP

By: 

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Linda Pestano

Application No.: 10/770,257

Filed: February 2, 2004

For: METHOD FOR INDUCTION OF  
PROLIFERATION OF NATURAL  
KILLER CELLS BY DENDRITIC  
CELLS CULTURED WITH GM-CSF  
AND IL-15

Confirmation No.: 9589

Examiner: A.M.S. Wehbe

Art Unit: 1633

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references, in compliance with the requirements of 37 CFR §1.98(a)(2), are enclosed.

Applicant would like to bring to the Examiner's attention the following related application:

International Application No. PCT/US02/23865(WO 03/010292 A2, published on February 6, 2003), for "Methods and Apparatus for Enrichment and Culture of Monocytic Dendritic Cell Precursors," filed July 25, 2002 (Attorney Docket No.: 020093-002610PC).

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: 26 April 2007

By: Brian W. Poor  
Brian W. Poor  
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/770,257
				Filing Date	February 2, 2004
				First Named Inventor	Pestano, Linda
				Art Unit	1633
				Examiner Name	A.M.S. Wehbe
Sheet	2	of	4	Attorney Docket Number	020093-003910US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	AF	Asai <i>et al.</i> , "Suppression of Graft-Versus-Host Disease and Amplification of Graft-Versus-Tumor Effects by Activated Natural Killer Cells after Allogeneic Bone Marrow Transplantation," <i>J. Clin. Invest.</i> 101:1835-1842 (1998).	<input type="checkbox"/>	
	AG	Bernhard <i>et al.</i> , "Generation of Immunostimulatory Dendritic Cells from Human CD34+ Hematopoietic Progenitor Cells of the Bone Marrow and Peripheral Blood," <i>Cancer Res.</i> 55:1099-1104 (1995).	<input type="checkbox"/>	
	AH	<i>Bone-Marrow Conservation, Culture and Transplantation, Proceedings of a Panel</i> , Moscow, Jul. 22-26, 1968, International Atomic Energy Agency, Vienna, pp. 107-186.	<input type="checkbox"/>	
	AI	Caux <i>et al.</i> , "GM-CSF and TNF- $\alpha$ Cooperate in the Generation of Dendritic Langerhans Cells," <i>Nature</i> 360:258-261 (1992).	<input type="checkbox"/>	
	AJ	De Bruijn <i>et al.</i> , "Mechanisms of Induction of Primary Virus-Specific Cytotoxic T Lymphocyte Responses," <i>Eur. J. Immunol.</i> 22:3013-3020 (1992).	<input type="checkbox"/>	
	AK	Dozmorov and Miller, "In Vitro Production of Antigen-Specific T Cells From Unprimed Mice: Role of Dexamethasone and Anti-IL-10 Antibodies," <i>Cell Immunol.</i> 178:187-196 (1997).	<input type="checkbox"/>	
	AL	Ferlazzo <i>et al.</i> , "Human Dendritic Cells Activate Resting Natural Killer (NK) Cells and Are Recognized via the Nkp30 Receptor by Activated NK Cells," <i>J. Exp. Med.</i> 195:343-351 (2002).	<input type="checkbox"/>	
	AM	Freudenthal and Steinman, "The Distinct Surface of Human Blood Dendritic Cells, as Observed After an Improved Isolated Method," <i>Proc. Natl. Acad. Sci. USA</i> 87:7698-7702 (1990).	<input type="checkbox"/>	
	AN	Gorin, "Collection, Manipulation and Freezing of Haemopoietic Stem Cells," <i>Clinics in Haematology</i> 15:19-48 (1986).	<input type="checkbox"/>	
	AO	Inaba <i>et al.</i> , "Direct Activation of CD8 <sup>+</sup> Cytotoxic T Lymphocytes By Dendritic Cells," <i>J. Exp. Med.</i> 166:182-194 (1987).	<input type="checkbox"/>	
Examiner Signature				Date Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AW/ (03/13/2009)

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		First Named Inventor	Pestano, Linda		
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		Examiner Name	A.M.S. Wehbe		
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	AP	Lang <i>et al.</i> , "Clinical Scale Isolation of T Cell-Depleted CD56 <sup>+</sup> Donor Lymphocytes in Children," <i>Bone Marrow Transplant.</i> 29:497-502 (2002).	<input type="checkbox"/>	
	AQ	Macatonia <i>et al.</i> , "Suppression of Immune Responses by Dendritic Cells Infected With HIV," <i>Immunol.</i> 67:285-289 (1989).	<input type="checkbox"/>	
	AR	Macatonia <i>et al.</i> , "Primary Stimulation By Dendritic Cells Induces Antiviral Proliferative and Cytotoxic T Cell Responses <i>In Vitro</i> ," <i>J. Exp. Med.</i> 169:1255-1264 (1989).	<input type="checkbox"/>	
	AS	Maffei, <i>et al.</i> , "A Novel Closed System Utilizing Styrene Copolymer Bead Adherence for the Production of Human Dendritic Cells," <i>Transfusion</i> 40:1419-1420 (2000).	<input type="checkbox"/>	
	AT	Markowicz and Engleman, "Granulocyte-Macrophage Colony-Stimulating Factor Promotes Differentiation and Survival of Human Peripheral Blood Dendritic Cells <i>In Vitro</i> ," <i>J. Clin. Invest.</i> 85:955-961 (1990).	<input type="checkbox"/>	
	AU	Mohamadzadeh <i>et al.</i> , "Interleukin 15 Skews Monocyte Differentiation into Dendritic Cells with Features of Langerhans Cells," <i>J. Exp. Med.</i> 194:1013-1019 (2001).	<input type="checkbox"/>	
	AV	Naume <i>et al.</i> , "Immunomagnetic isolation of NK and LAK cells," <i>J. Immunol. Methods</i> 136:1-9 (1991).	<input type="checkbox"/>	
	AW	O'Doherty <i>et al.</i> , "Dendritic Cells Freshly Isolated from Human Blood Express CD4 and Mature into Typical Immunostimulatory Dendritic Cells after Culture in Monocyte-Conditioned Medium," <i>J. Exp. Med.</i> 178:1067-1076 (1993).	<input type="checkbox"/>	
	AX	Saikh <i>et al.</i> , "IL-15-Induced Conversion of Monocytes to Mature Dendritic Cells," <i>Clin. Exp. Immunol.</i> 126:447-455 (2001).	<input type="checkbox"/>	
	AY	Spitzer <i>et al.</i> , "High-Dose Combination Chemotherapy With Autologous Bone Marrow Transplantation in Adult Solid Tumors," <i>Cancer</i> 45: 3075-3085 (1980).	<input type="checkbox"/>	

Examiner Signature	/Anne Marie Wehbe/ (03/13/2009)	Date Considered	03/13/2009
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	AZ	Steel and Nutman, "Helminth Antigens Selectively Differentiate Unsensitized CD45RA <sup>+</sup> CD4 <sup>+</sup> Human T Cells <i>in Vitro</i> ," <i>J. Immunol.</i> 160:351-360 (1998).	<input type="checkbox"/>
	BA	Steinman, "The Dendritic Cell System and its Role in Immunogenicity," <i>Ann. Rev. Immunol.</i> 9:271-296 (1991).	<input type="checkbox"/>
	BB	Stiff <i>et al.</i> , "Unfractionated Human Marrow Cell Cryopreservation Using Dimethylsulfoxide and Hydroxyethyl Starch," <i>Cryobiology</i> 20:17-24 (1983).	<input type="checkbox"/>
	BC	Tao <i>et al.</i> , "Induction of IL-4-Producing CD4 <sup>+</sup> T Cells by Antigenic Peptides Altered for TCR Binding," <i>J. Immunol.</i> 158:4237-4244 (1997).	<input type="checkbox"/>
	BD	Taylor <i>et al.</i> , "The Cryobiology of Rat and Human Dendritic Cells: Preservation and Destruction of Membrane Integrity by Freezing," <i>Cryobiology</i> 27:269-278 (1990).	<input type="checkbox"/>
	BE	Young and Steinman, "Dendritic Cells Stimulate Primary Human Cytolytic Lymphocyte Responses in the Absence of CD4 <sup>+</sup> Helper T Cells," <i>J. Exp. Med.</i> 171:1315-1332 (1990).	<input type="checkbox"/>

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